

ABSTRACT

A PDP with superior light-emitting characteristics and color reproduction is achieved by setting the chromaticity coordinate y (the CIE color specification) of light to 0.08 or less, more preferably to 0.07 or less, or 0.06 or less, enabling
5 the color temperature of light to be set to 7,000K or more, and further to 8,000K or more, 9,000K or more, or 10,000K or more. The PDP is manufactured by a method in which the processes for heating the fluorescent substances such as the fluorescent substance baking, sealing material temporary baking, bonding,
10 and exhausting processes are performed in the dry gas atmosphere, or in an atmosphere in which a dry gas is circulated at a pressure lower than the atmospheric pressure. This PDP is also manufactured by: a method in which after the front and back panels are bonded together, the exhausting process for
15 exhausting gas from the inner space between panels is started while the panels are not cooled to room temperature; or a method in which after the front and back panels are temporarily baked, the process for bonding the panels is started while the panels are not cooled to room temperature. This reduces the time and
20 energy required for heating, resulting in reduction of manufacturing cost.